0 K 5-85

ŞEPA		DOUS WASTE SITE		IFICATION
	PRELIMINARY A		1717	980 898 27
II. SITE NAME AND LOCATION				
01 SITE NAME (Legal common, or descriptive name of alle)	. (1)	02 STREET, ROUTE NO., OR SPE	· · · · · · · · · · · · · · · · · · ·	·
Keinhold Dil		7-3-N, R		
Christy Two	nohp		awrence	CODE DIST
38 41 35	LONGITUDE 087 49.37	Sumner	7.5' Qua	1 /234)
10 DIRECTIONS TO SITE (Starting from nearest public road		•		
5	ee Attached	l Map		
III. RESPONSIBLE PARTIES				
Ear! Staate		22 STREET (Business making regions)	3	
Summer		TL COXICO	OB TELEPHONE NUMBER	/
CENTROLD OF	Produces	POX 48	×	• • •
OINEY		10 STATE 11 ZP COOS 1 (2451)	12 TELEPHONE NUMBER	1
13 TYPE OF OWNERSHIP (Check one)		-0146760		<u>, l </u>
A PRIVATE B. FEDERAL	(Agency name)	C. STATE		UNICIPAL
☐ F OTHER:	(Speedy)	G. UNKNOW	N	
14 OWNER/OPERATOR NOTIFICATION ON FILE (CN: A. RICRA 300 DATE RECEIVED: MONTH		ED WASTE SITE (CERCLA 163 4)	DATE RECEIVED:	DAY YEAR OF C. NONE
IV. CHARACTERIZATION OF POTENTIAL			·	
01 ON SITE INSPECTION VES DATE: NO MONTH DAY YEAR	BY (Cheek of the: equity) A. EPA B. EPA E. LOCAL HEALTH OFFIC	CONTRACTOR C.S		RCONTRACTOR
	CONTRACTOR NAME(8): _		(Specially)	
D2 SITE STATUS (Chick sins) A. ACTIVE B. INACTIVE C. U	03 YEARS OF OPERAT	GROUND VEAR BROWN VEAR	X UNIKNOV	M .
Dily Waste (Tox	MECHOWN OR ALLEGED	GRAND VEAR ENGING VEAR	Xnmonon	N
☐ A. ACTIVE ☐ B. INACTIVE ★ C. U	MECHOWN OR ALLEGED	GRAND VEAR ENGING VEAR	X(niknov	N
Dily Waste (Tox	SOLL b/e/Toxic/Per	GRAND VEAR ENGING VEAR	Xunnov	N
DA ACTIVE B. MACTIVE ACTURE OF DESCRIPTION OF SUBSTANCES POSSIBLY PREDICTORY Waste (Tox Heavy Metals (S	SOLL b/e/Toxic/Per	rsistant)		N .
DA ACTIVE BENACTIVE ACTURE OF DESCRIPTION OF SUBSTANCES POSSIBLY PREDICTORY Waste (Tox Heavy Metals (S) CS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT WATER V. PRIORITY ASSESSMENT	MECHOWAN SENT. KNOWN, OR ALLEGED SOLUBIE/TOXIC/PEI REMARKS AND/OR POPULATION (Population/	rsistant) Environment)	A.
DA ACTIVE DB. MACTIVE ACT. U O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRE O'/y Waste (Tox Heavy Metals (S C5 DESCRIPTION OF POTENTIAL HAZAND TO ENVI	MECHOWAN SENT. KNOWN, OF ALLEGED I'C) Seluble/Toxic/Per REMARKENT AND/OR POPULATION (Population/	Environment)	
OA ACTIVE OB INACTIVE XC. U OA DESCRIPTION OF SUBSTANCES POSSIBLY PRE D'/Y Waste (Tox Heavy Metals (S OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIR Ground Wate) V. PRIORITY ASSESSMENT OT PRIORITY FOR INSPECTION Check sees. E high or res OA. HIGH XB. MEI	MECHOWAN BEST KNOWN, OR ALLEGED I'C) Seluble/Toxic/Per NOTHER TANDOR POPULATION (Population / C) NOTHING CHARGES AND 2 - HOUSE WARMEND DRIM C. LOW	Environment) Is Conditions and Institutes)	
OA DESCRIPTION OF SUBSTANCES POSSIBLY PRE D'/Y Waste (Tox Heavy Metals (S CS DESCRIPTION OF POTENTIAL HAZARD TO ENVI Ground Wate) V. PRIORITY ASSESSMENT O1 PRIORITY FOR HS PECTION "Check cose. If high or me (Inspection squired prengaty) (B. ME) (Inspection squired prengaty)	MECHOWAN BEST KNOWN, OR ALLEGED I'C) Seluble/Toxic/Per NOTHER TANDOR POPULATION (Population / C) NOTHING CHARGES AND 2 - HOUSE WARMEND DRIM C. LOW	Environ ment) Is Conditions and Institutes)	
OA DESCRIPTION OF SUBSTANCES POSSIBLY PRE D'/Y Waste (Tox Heavy Metals (S CS DESCRIPTION OF POTENTIAL HAZARD TO ENVI Ground Wate) V. PRIORITY ASSESSMENT O1 PRIORITY FOR HS PECTION "Check cost. English or me (Inspection squired promptly) VI. INFORMATION AVAILABLE FROM	MECHOWN SENT, KNOWN, OR ALLEGED FIC) SOLUBIE/TOXIC/PEI REMARKS AND/OR POPULATION C POPULATION C LOW INSIGN TO CLUCK (Proposed on Streets)	Environ ment) Is Conditions and Institutes)	O3 TELEPHONE NUMBER

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

-	I. IDENTIFICATION	
	01 STATE 02 SITE NUMBER	77

NTITIES, ANI INM ADOMY E SLURRY F'LIQUID G GAS NY SUBSTANCE NA E ASTE NTS IDES ORGANIC CHI ANIC CHEMICA METALS ANCES (See AM	TONS CUBIC YARDS NO OF DRUMS	ITY AT SITE of waste quantities independent	A TOXIC B CORRC C RADIO XD PERSIS	ICTIVE G FLAN TENT H IGNIT	JBLE I HIGHLY CTIOUS J EXPLO: MABLE K REACT ABLE L INCOM M NOT A	ive
E SLURRY F LIQUID G GAS SUBSTANCE NA E ASTE NTS IDES ORGANIC CHI ANIC CHEMICA	Measures nustre	O1 GROSS AMOUNT	DZ UNIT OF MEASURE	SIVE F INFERCTIVE G FLANTENT H IGNIT	JBLE I HIGHLY CTIOUS J EXPLO: MABLE K REACT ABLE L INCOM M NOT A	SIVE TIVE IPATIBLE
SUBSTANCE NA E ASTE NTS IDES ORGANIC CHI ANIC CHEMICA	TONS CUBIC YARDS NO OF DRUMS	O1 GROSS AMOUNT	D2 UNIT OF MEASURE	SIVE FINES CTIVE G FLAN TENT H IGNIT 03 COMMENTS	CTIOUS J EXPLO: IMABLE K REACT 'ABLE L INCOM M NOT A	SIVE TIVE IPATIBLE
SUBSTANCE NA E ASTE NTS IDES ORGANIC CHI ANIC CHEMICA	NO OF DRUMS	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS Grude	M NOT A	
SUBSTANCE NA E ASTE NTS IDES ORGANIC CHI ANIC CHEMICA	EMICALS	Unk	Unk	Grude	0;1	
E ASTE NTS IDES ORGANIC CH ANIC CHEMICA	EMICALS	Unk	Unk	Grude	Oil	
E ASTE NTS IDES ORGANIC CH ANIC CHEMICA	EMICALS	Unk	Unk	Grude	0;1	
ASTE NTS IDES ORGANIC CH ANIC CHEMICA METALS					0;1	
IDES ORGANIC CHI ANIC CHEMICA METALS						
IDES ORGANIC CHI ANIC CHEMICA METALS		Unk	Unk	Brine		
ORGANIC CH ANIC CHEMICA METALS		Unk	Unk	Brine		
ANIC CHEMICA		211		1 STINE	111	
METALS		 			Wa 316	
				 		
		 		 	 	
		· · · · ·	Unk	2 - 4	11/ 1/0	
INCES (See A)		<u> </u>	<u>unn</u>	Drive	Waste	
SUBSTANCE NA		03 CAS NUMBER	0. STOPACE DIS	20541 14571105	T	06 MEASURE OF
30531 A-CC		US CAS NOMBER	04 STORAGE DIS	POSKE METHOD	05 CONCENTRATION	CONCENTRATIO
		 			 	
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		O2 CAS NUMBER	CATEGORY	O1 FEEDS:	TOO'N NAME	02 CAS NUMBER
OT PEEDSTOCK	NAME	UZ CAS NUMBER		OTFEEDS	OCK NAME	02 CAS NOMBER
		 				
		 				
		 				
		<u>l</u>				L
SATION ICE S	pechic references, a g	, state files. Sample analysis re	ports)			
	01 FEEDSTOCH		01 FEEDSTOCK NAME 02 GAS NUMBER 02 GAS NUMBER 1ATION IG/e specific references, e.g., stefa files, sample analysis in	01 FEEDSTOCK NAME 02 CAS NUMBER CATEGORY FDS FDS FDS FDS FDS FDS FDS ATION (Cre specific references, e.g., steele files, sample analysis reports)	01 FEEDSTOCK NAME 02 CAS NUMBER CATEGORY 01 FEEDST FDS FDS FDS FDS FDS FDS FDS ATION (Cite specific references, e.g., sade files, sample analysis reports.)	01 FEEDSTOCK NAME 02 CAS NUMBER CATEGORY 01 FEEDSTOCK NAME FDS FDS FDS FDS FDS

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

LI.	IDENTIFICATIO	N	
2	STATE OZ SITE MU	र्वप्र १	7

PART 3 DESCRIPTION OF THE			
II. HAZARDOUS CONDITIONS AND INCIDENTS	·	· · · · · · · · · · · · · · · · · · ·	
01 X & GROUNDWATER CONTAMINATION 2275.6	02 OBSERVED (DATE	POTENTIAL	ALLEGED
03 POPLIATION POTENTIALLY AFFECTED.	VA NARRATIVE DESCRIPTION		
Highly soluble Drine ,	vaste placed for di	posal In	Annea
Highly soluble brine , layoun. This practice has i	impacted private wells	at similar	+acilities
	•		
01 GB SURFACE WATER CONTAMINATION	02 C OBSERVED (DATE:) L. POTENTIAL	. : ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
OLE CONTAMINATION OF AIR	02 C OPSEMBLIDATE	20751734	5: 44:5050
01 SEC CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	. POTENTIAL	C: ALLEGED
	·	·	
01 (ii) D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION PIDTENTIALLY AFFECTED:	02 TOBSERVED (DATE:	L: POTENTIAL	C ALLEGED
US POPULAT ON POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
01 🖾 E. CIRECT CONTACT	02 C OBSERVED (DATE.	D POTENTIAL	. ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 X F. CONTAMINATION OF SOIL // L	02 D OBSERVED (DATE:	POTENTIAL	ALLEGED
OG AREA FOTENTIALLY AFFECTED: WILL	04 NARRATIVE DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	,
1.053 of production (Ag	land) + damage to	soil structu	ire has
1.053 of production (Agben noted at similar 3	sites.		
			9
01 M2 2571/20 00/21/20 00/21/20 00/21	O2 LI OBSERVED (DATE)(Jee 05 04	her tollowing
01 MG. DEINKING WATER CONTAMINATION 2215-65	04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
,			
See A above			
JEE 011			
01 THE WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 (1) OBSERVED (DATE	☐ POTENTIAL	.! ALLEGED
TO WORK TO POTE THE PART COTES.	OF ROUNDE IIVE DESCRIPTION		
01 DI POPILATION EXPOSURE/INJURY	02 [] OBSERVED (DATE:)	[] POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
			i

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

l	1.	DEN 1	TIFICATION	
	ジエ	STATE	930 898	7:79

PART 3 - DESC	RIPTION OF HAZARDOUS CONDITIONS AND INCIDE	NTS ZZO	<u>30 898 77</u>
HAZARDOUS CONDITIONS AND INCIDE			
I DE J. DAMAGE TO FLORA	ar sterilization of soils (>5 ac aity, has been noted at other s	POTENTIAL	□ ALLEGED
increased soil solis	ar sterilization of 30ils (>3 ac	res), AHM	buted to
			8 5.
	See F Above) (See 05 other +	following)	
01 C K. DAMAGE TO FAUNA	02 OBSERVED (DATE:		☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name) 21 of spec	C408)		
01 D L. CONTAMINATION OF FOOD CHAIN	02 - OBSERVED (DATE:	POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION			
		_	
01 () M UNSTABLE CONTARMENT OF WASTE	ES 02 OBSERVED (DATE:) DOTENTIAL	☐ ALLEGED
(Seets named standing training station) 03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
			•
01 (. N. DAMAGE TO OFFSITE PROPERTY	02 Li OBSERVED (DATE:) POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION			•
OF CONTAMBIATION OF SEWERS STOR	M DRAINS, WWTPs 02 D OBSERVED (DATE:) D POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION	M DIAMS, WHIPE OZ LI OBSENZEU (DATE:	, 2.0.0	
OI 370 HI FOALA MALITMORIZED OLIMONIC	02 T OBSERVED IDATE.	V. C. BOTENTIAL	CLAUSOED
04 NARRATIVE DESCRIPTION	UZ J OBSERVED (UATE:	POISHINE	= '/',
Site was intregue	ntly inspected by regulatory	agencies	, racility
as now been backf	ntly inspected by regulatory filled making illegal dumping h	iard to de	tect.
DS DESCRIPTION OF ANY OTHER KNOWN, PO	otential or alleged hazards by brines is deemed lead It. counties.	24	of soil
ensein is soverel	The counties	ing cause	<i>61 3011</i>
2/03/07 /7 30001 2/	Z ~ · · · · · · · · · · · · · · · · · ·		
M. TOTAL POPULATION POTENTIALLY AF	PFECTED:		
IV. COMMENTS			
REINHOLD DIT Address Unre	troducers into	rmation ERRIS) 93 QP1
Address Unre	DOVERY ON	ERRIS	(4-4)
DINEY, IL U	3/50	_	'/
V. SOURCES OF INFORMATION (Can appears to		· · · · · · · · · · · · · · · · · · ·	<u></u>
S.I.A. stuo	l.		
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EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents. of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the scle source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

